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brave and able fulfillment of his duty, and warmly affectionate memories of the man himself.

THEODORE W. RICHARDS
GREGORY P. BAXTER
BRUCE WYMAN

THE MUSEUM OF VERTEBRATE ZOOLOGY OF THE UNIVERSITY OF CALIFORNIA

THE Museum of Vertebrate Zoology of the University of California is represented during the present year by parties carrying on faunistic exploration in three regions.

The expedition to the Colorado Valley under the immediate leadership of Joseph Grinnell, director of the museum, returned on May 17, after three months' work along the river from Needles to Yuma. Over 3,000 specimens of mammals, birds, and reptiles were obtained, some of the species being new to the known fauna of California. The important fact was brought out that the Colorado River serves, at least in this portion of its course, as an effectual barrier for at least ten species of small mammals; that is, in no one of these cases does the range of the species cross the river. For example, three species of pocket-mice (*Perognathus*) occur abundantly on the Arizona side, and three other and distinct species occupy corresponding associational belts on the California side.

Mr. Walter P. Taylor, assistant in the museum, now has a party in the Warner Mountain region of extreme northeastern California. It is already apparent from their work since entering the region May 15, that the Sierran and Great Basin faunas are curiously blended in the Warner Mountains. To express it otherwise, there is an uneven intermixture of the representative elements of the two regions.

Miss Annie M. Alexander, founder and patron of the museum, is with three assistants exploring the interior of northern Vancouver Island. Specimens have been obtained there of a distinct form of beaver, and of mountain lion, black bear, and other carnivorous mammals, besides large series of the smaller mammals and birds. The work on Vancouver Is-

land began in April and will extend through September. The results are expected to add to the knowledge of the zoogeography of the region.

All the specimens and field notes obtained on these three expeditions become the property of the University of California, and on them are to be based special faunal studies.

THE ROCKEFELLER INSTITUTE FOR MEDICAL RESEARCH

THE Board of Directors of the Rockefeller Institute for Medical Research announce the following promotions and appointments for the year 1910-11:

Laboratory Staff

Member: Jacques Loeb, experimental biology.

Associates: W. A. Jacobs, biological chemistry;

D. R. Joseph, physiology and pharmacology;

Peyton Rous, pathology; B. T. Terry, proto-

zoology; D. D. Van Slyke, biological chemistry.

Assistants: M. T. Burrows, experimental surgery; P. F. Clark, bacteriology; I. S. Kleiner, physiology and pharmacology; Hardolph Wasteneys, experimental biology.

Fellows: F. J. Birchard, biological chemistry;

F. B. La Forge, biological chemistry.

Scholar: J. Bronfenbrenner, pathology.

Hospital Staff

Resident physician: G. Canby Robinson.

Internes: George Draper, H. K. Marks, F. W.

Peabody, H. F. Swift.

General Manager—Jerome D. Greene.

SCIENTIFIC NOTES AND NEWS

AT a dinner at the Athenæum Club, London, on July 1, President Nicholas Murray Butler presented to Professor Ernest Rutherford, of the University of Manchester, the Barnard medal, which had been awarded to him by Columbia University on the recommendation of the National Academy of Sciences.

DR. HUGO MÜNSTERBERG, professor of psychology at Harvard University, sailed for Germany on July 2. He will be next year the Harvard exchange professor with the University of Berlin, and will at the same time organize and be the first director of an Ameri-

can Institute, established as a clearing house for intellectual relations between Germany and America.

THE trustees of Cornell University have passed resolutions on the retirement of Professor Wait and Professor Wilder, and their appointment as emeritus professors as follows:

Resolved, that on the retirement at the end of the academic year 1909-10 of Professor Lucien Augustus Wait, who has faithfully served the university in the department of mathematics for forty years and has been in charge of its administration for a third of a century, the members of the board of trustees hereby place upon record their high appreciation of his services to the university as a devoted professor and efficient administrator in one of its largest departments; and that this board (many of whose members have been among Professor Wait's pupils) join with hundreds of Cornell alumni in paying hearty tribute to his worth as an educator and a man, and in wishing for him many years of health and happiness.

Resolved, that on the retirement at the close of the present academic year of Burt Green Wilder, professor of neurology and vertebrate zoology, the trustees record their appreciation of his long and devoted service, beginning with the day that the university first opened its doors to receive students and continuing through two and forty years until the present time, a lifetime freely and unselfishly given to the cause of science, and an inspiring example to hundreds of his students of that eager love for the truth characteristic of him as it was of his own masters, Gray, Holmes, Wyman and Agassiz. Recalling the fact that he is the last of the original faculty in active service, the trustees wish him many years of health and continued activity in the chosen field of his labors.

AMONG the honorary degrees conferred by Harvard University at its recent commencement exercises were the doctorate of laws on President R. C. Maclaurin, and the doctorate of science on Sir John Murray, Professor Theodore W. Richards and Professor Theobald Smith. The characterizations used by President Lowell in conferring these degrees were as follows: Richard Cockburn Maclaurin, a scholar distinguished in three continents for his knowledge of the laws of nature and of man, whom we welcome as a friend, and honor

for his own talents and as president of our most celebrated school for engineers; Sir John Murray, one of the pioneers in the *Challenger*, who searched the bed of the ocean, year by year, more famous as an explorer into the depths of its silence and its mystery; Theodore William Richards, a chemist who has weighed the atoms in his balance; an explorer to whom the elements of the universe have told their secret; a modest seer of things invisible to man. Theobald Smith, discoverer of the cause of Texas fever, who taught men to seek in insects the source of human plagues; he stands among the great benefactors of mankind.

CAMBRIDGE UNIVERSITY has conferred its doctorate of science on Sir Oliver Lodge, principal of the University of Birmingham, and Professor William Henry Perkin, professor of organic chemistry in the University of Manchester.

SENATOR BLASERNA, professor of physics at Rome, has been elected a corresponding member of the Paris Academy of Sciences.

DR. WILHELM ROUX, professor of anatomy at Halle, has been elected an honorary member of the Royal Academy of Medicine at Turin.

GRAF VON ZEPPELIN has been appointed a knight of the Prussian order pour le mérite.

THE Baumgartner prize of the value of 2,000 crowns, of the Vienna Academy of Sciences, has been awarded to Dr. Stark, for his work on electrons.

THE statement that Professor Oscar Bolza, who becomes non-resident professor in the University of Chicago, and will hereafter live in Freiburg, Germany, will receive his salary from the university, is incorrect.

DR. TRUMAN MICHELSON and Dr. Paul Radin, both of whom have been working at Columbia University under Professor Franz Boas, have been appointed ethnologists in the Bureau of American Ethnology.

DR. OSKAR C. GRUNER, clinical pathologist to the General Infirmary, Leeds, has been appointed pathologist to the Royal Victoria Hospital, Montreal, and lecturer on pathology at McGill University.

PROFESSOR THOMAS A. JAGGAR, JR., of the department of geology of the Massachusetts Institute of Technology, and Professor Charles Spofford, of the department of civil engineering, are now in Costa Rica making a study into the cause and nature of earthquakes and the type of structures and architecture best suited to resist earthquakes.

DR. H. H. RUSBY will spend the summer in Mexico in connection with his investigations of the new rubber-producing tree, *Euphorbia dendron fulvum*. Advantage will be taken of this opportunity for making collections for the New York Botanical Garden, especially of economic material, and for the investigation of Mexican drugs and medicinal plants in the interest of the United States Pharmacopœia.

MR. W. W. EGGLESTON has been appointed assistant botanist of the Forest Service and he has been detailed to study poisonous forage plants in Colorado in cooperation with the Bureau of Plant Industry.

PROFESSOR FREDERICK STARR, of the department of sociology and anthropology of the University of Chicago, has returned from an eight-months' stay in Japan, where he conducted anthropological researches.

MR. J. W. ROBERTSON, late principal of the MacDonald Agricultural College, has been appointed chairman of a commission to investigate the need for technical education in Canada.

DR. RAPHAEL MELDOLA, professor of chemistry in Finsbury Technical College, will give the next Herbert Spencer lecture at Oxford University.

THE ninety-third annual meeting of the Swiss Society of Natural Sciences is to be held at Bâle on September 4-7. Lectures will be delivered by Professor W. Ostwald, of Leipzig, and Professor E. von Drygalski, of Munich. The Swiss Societies of Botany, Chemistry, Geology, Physics, Zoology and Mathematics will meet in affiliation with the general society.

THE Berlin correspondent of the *Journal* of the American Medical Association states that the ashes of Robert Koch, cremated in Baden-

Baden, have been brought to the Institute for Infectious Diseases, in Berlin, which was the place of his labors for the last decade, and they will be permanently installed in a room which, with the permission of the national authorities, is to be converted into a mausoleum for Koch. In this room also there will be placed the bust, contributed by his pupils on his sixtieth birthday, his works and other memorials. A memorial room will be produced, similar to the one which has been provided for Pasteur in his Paris institute. In order to avoid a large number of single memorial services in the various societies of which Koch was an honorary member, a committee has been formed which is preparing a single memorial service for all these bodies in common. The date for this celebration has been postponed to December 11 of this year, which will be the sixty-seventh birthday of Robert Koch; this resolution has been taken because, as is generally understood, in the next few weeks many of the persons who would be interested in this memorial will be away from home, and, moreover, because representatives from foreign countries are expected at the celebration, and finally because Koch himself wished a quiet interment. The memorial address at the proposed service will be delivered by Dr. Gaffky, the oldest pupil of Koch and his successor in the directorship of the Institute for Infectious Diseases.

IN the National Institute for Bacteriology in the City of Mexico, there was, on June 24, unveiled a memorial tablet to Dr. Howard T. Ricketts, of the University of Chicago, who lost his life in the course of his research on Mexican typhus.

DR. CHARLES A. WHITE, formerly state geologist of Iowa, member of the U. S. Geological Survey and of the National Academy of Sciences, died on June 29, at Washington, D. C., in his eighty-fifth year, after an illness of some months.

DR. CYRUS THOMAS, archeologist in the Bureau of American Ethnology since 1882, well known for his contributions to anthropology, died on June 27, in Washington, at the age of eighty-five years.

DR. HENRY HARRIS AUBREY BEACH, a physician of Boston, formerly demonstrator in anatomy and lecturer in surgery in the Harvard Medical School, died on June 28, at the age of sixty-seven years.

THERE has been established at Chicago the Otho S. A. Sprague Memorial Institute for the Scientific Investigation of the Causes of Disease, by the will of the Chicago merchant whose name it bears. The endowment is \$1,000,000, which it is said may be considerably increased.

CONGRESS has passed the bill appropriating \$50,000 to establish a biological laboratory for the study of diseases of fish, especially those related to cancer. The station is to be established under the U. S. Fish Commission.

THROUGH the generosity of Mr. Anson W. Hard, the American Museum of Natural History has secured an extensive series of old and valuable serapes and other blankets made by the Saltillo and other Indian tribes of Mexico and several of the tribes of the southwest.

THE fourth International Congress of Philosophy will be held at Bologna at Easter, 1911.

THE Harvard Summer School of field geology, endowed by Mr. Robert W. Sayles, will be held in Montana for five weeks in July and August under the direction of Professors J. B. Woodworth and J. W. Eggleston (recently appointed at the School of Mines, Rolla, Mo.). The Boston members of the school, about eighteen in number, started on July 5 in a special car for Bozeman.

UNIVERSITY AND EDUCATIONAL NEWS

By the will of the late Edward Whitney the Massachusetts Institute of Technology, receives \$25,000 for work in geophysics.

At a recent meeting of the trustees of the University of Illinois the annual budget for 1910-11, \$1,229,368, was voted. This does not include the sums appropriated by the state legislature for the permanent improvement of the plant. The trustees accepted a gift from the Chicago Northwestern Railway Company,

of the Locomotive Testing plant at Fortieth Street shops. This plant will be removed to the university in Urbana.

THE electrical laboratory presented to Oxford University by the Drapers' Company, and erected on the north side of the University Museum at a cost of £23,000, was formally opened on June 21.

At the University of Pennsylvania hereafter the chairman of each department of instruction will be elected annually by the department. For the year 1910-11, Professor G. E. Fisher has been elected chairman of the department of mathematics in the graduate school, and Professor I. J. Schwatt, chairman of the mathematics department in the college.

APPOINTMENTS to the faculty were made by the regents of the University of Wisconsin at the commencement meeting as follows: A professorship of manual arts in the course for the training of teachers was established, and Professor F. D. Crawshaw, of the University of Illinois, was elected to the new chair. Dr. J. A. E. Eyser, of the University of Virginia, was made professor of physiology to succeed Dr. Joseph Erlanger, who resigned to accept the position of the head of the department of physiology in the medical school of Washington University. F. B. Hadley, of Ohio State University, was appointed assistant professor of veterinary science. Edward J. Ward, now supervisor of social centers and playgrounds in the city of Rochester, N. Y., was appointed acting secretary of the welfare department of the university extension division. The following new instructors were appointed: E. E. Moots, mathematics; E. M. Gilbert, botany; O. Butler, horticulture; S. E. Johnson, mechanics; Dr. Robert Van Valzah, medicine; W. C. Rowse, steam and gas engineering. The new assistants elected were: G. A. Russell and Frieda Bachman, botany; Vanette MacDonald, herbarium; Paul H. Dyke, R. R. Chamberlin, T. M. Dahm, R. L. Wegel, T. J. Littelton, Phillip Rosenberg, R. G. Sherwood, A. L. Tarrell, E. B. Young, R. T. Birge, O. J. Zabel, Harriet B. Merrill, zoology; R. A. Baker, O. L. Barnebey, G. Dietrichson, W. S. Hubbard, Eldin V. Lynn, E. S.